ELSEVIER

Journal of Organometallic Chemistry 564 (1998) 285

Journal of Organometallic Chemistry

Author index of Volume 564

Abdul Malik, K.M., 133
Al-Juaid, S.S., 215
Al-Rawi, M., 215
Alt, H.G., 109, 115
Andersen, J.-A.M., 267
Aoyama, S., 47
Azam, K.A., 133

Barontini, S., 57
Becker, C., 155
Beck, W., 179
Belsky, V.K., 5
Blacque, O., 71
Blake, A.J., 209
Bois, C., 201
Boukherroub, R., 61
Brunner, H., 71
Bulychev, B.M., 5

Cabeza, J.A., 201
Caporusso, A.M., 57
Castarlenas, R., 241
Choi, N., 81
Cotton, A., 267

Dahlenburg, L., 155, 227
d'Arbeloff, S.E., 189
Darkwa, J., 37
de la Mata, F.J., 277
Delis, J.G., 29
del Real, P.A., 93
Ding, L., 233
Du, C.X., 233
Duesler, E.N., 13
Duffy, N.W., 125

Eaborn, C., 215
Eckert, C., 227
Esteruelas, M.A., 241

Fischer, R.D., 167
Föttinger, K., 109, 115
Franco, R.J., 201

Głowiak, T., 143
Gómez, J., 277
Gómez, R., 93
Gómez-Sal, P., 93
Guan, J., 167

Harper, J., 125
Hirao, T., 1
Hitchcock, P.B., 189, 215
Höck, J., 155
Hoffmüller, W., 179
Hursthouse, M.B., 133

Ikeda, T., 1
Ishikawa, M., 47
Ivchenko, N.B., 5

Javier de la Mata, F., 85
Jiménez Tenorio, M., 21

Kabir, S.E., 133
Katsukawa, Y., 249
Kawaguchi, H., 189
Khvostov, A.V., 5
Koenig, M., 61
Kozak, C.M., 101
Kranenburg, M., 29
Krossing, I., 179
Kubicki, M.M., 71
Kunai, A., 47
Kuniyasu, H., 1

Lee, H.-K., 193
Leung, W.-P., 193
Lin, J.T., 257
Lucas, D., 71

Mak, T.C., 193
Manuel, G., 61
Martín, A., 93
Martín, M., 241
McGlinchey, M.J., 101
Meier, W., 71
Mertel, S., 155
Miah, R., 133
Milius, W., 109, 115
Mirza-Aghayan, M., 61
Moss, J.R., 267
Mountford, P., 209
Moutloali, R.M., 37
Mugnier, Y., 71

Nagasawa, T., 189
Nixon, J.F., 189
Nöth, H., 179
Nuber, B., 71
Núñez, A., 93
Nyokong, T., 37

Oba, G., 61
Ogawa, A., 1
Ohshita, J., 47
Onaka, S., 249
Oro, L.A., 241

Paine, R.T., 13
Pertici, P., 57
Polborn, K., 179
Puerta, M.C., 21

Ramani, P., 125
Ranatunge-Bandarage, R., 125
Reisacher, H.-U., 13
Rep, M., 29
Riera, V., 201
Robinson, B.H., 125
Royo, P., 93, 277

Saborit, E., 201
Salcedo, I., 21
Salvadori, P., 57
Simpson, J., 125
Sizov, A.I., 5
Smith, J.D., 215
Sonoda, N., 1
Spek, A.L., 29
Stewart, P.J., 209
Stradiotto, M., 101
Stubenhofer, B., 71
Sugimoto, K., 47
Szymańska-Buzar, T., 143

Takeba, M., 1
Tanaka, M., 81
Tareque Abedin, S.M., 133
Tatsumi, K., 189
Tsai, C., 257

Vahrenkamp, H., 133
Valerga, P., 21
van Leeuwen, P.W., 29
Veldman, N., 29
Vitulli, G., 57
Vrieze, K., 29

Wachter, J., 71
Wang, W.L., 233
Watanabe, T., 47
Wen, Y.S., 257
Wu, Y.J., 233

Yamashita, M., 249
Yang, M.-F., 257
Yin, X., 267

Zhou, Z.X., 233
Zhou, Z.-Y., 193
Ziller, J.W., 85

PII S0022-328X(98)00817-1

ELSEVIER

Journal of Organometallic Chemistry 564 (1998) 287–291

Journal of Organometallic Chemistry

Subject index of Volume 564

Acetamidinate
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
Acid reactivity
Reactions of protic reagents with a tungsten phosphenium ion complex, 13
Acyl
Synthesis, characterization and chemistry of some long chain alkoxycarbonyl manganese pentacarbonyl complexes [$Mn(CO)_5${C(O)OR}] (where R = n-C_7H_{15} to n-$C_{10}H_{21}$, n-$C_{12}H_{25}$, n-$C_{14}H_{29}$, and n-$C_{16}H_{33}$), 267
Alcohol
Synthesis, characterization and chemistry of some long chain alkoxycarbonyl manganese pentacarbonyl complexes [$Mn(CO)_5${C(O)OR}] (where R = n-C_7H_{15} to n-$C_{10}H_{21}$, n-$C_{12}H_{25}$, n-$C_{14}H_{29}$, and n-$C_{16}H_{33}$), 267
Alkoxycarbonyl
Synthesis, characterization and chemistry of some long chain alkoxycarbonyl manganese pentacarbonyl complexes [$Mn(CO)_5${C(O)OR}] (where R = n-C_7H_{15} to n-$C_{10}H_{21}$, n-$C_{12}H_{25}$, n-$C_{14}H_{29}$, and n-$C_{16}H_{33}$), 267
Alkyl
Synthesis and reactivity of cyclopentadienyl chloro, imido and alkylidene tungsten (VI) complexes, 277
Synthesis, characterization and chemistry of some long chain alkoxycarbonyl manganese pentacarbonyl complexes [$Mn(CO)_5${C(O)OR}] (where R = n-C_7H_{15} to n-$C_{10}H_{21}$, n-$C_{12}H_{25}$, n-$C_{14}H_{29}$, and n-$C_{16}H_{33}$), 267
Alkylidene
Synthesis and reactivity of cyclopentadienyl chloro, imido and alkylidene tungsten (VI) complexes, 277
Alkylidenep
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2',6'-diisopropyl phenyl-2,5-dimethyl benzamide), 85
Alkyls
Synthesis and structural characterisation of nickel(II) alkyl complexes NiR_2, $[Ni(Cp)R]_2$ and a 'head-to-tail' coupled alkyl intermediate compound [NiR(Cl)(R–R)] [R = $C(SiMe_3)_2$-C_5H_4N-2, $CPh(SiMe_3)C_5H_4$N-2 or $CH(SiMe_3)C_5H_4$N-2; Cp = η^5-C_5H_5], 193
Alkyltitanium
Reactivity of chlorodimethylsilyl-η^5-cyclopentadienyltrichlorotitanium with nitrogen based donors. X-ray molecular structure of [Ti{η^5-$C_5H_4SiMe_2$[η^1-N(2,6-$Me_2C_6H_3$)]}Cl_2], 93
Alkyne complexes
Synthesis, structure and reactivity of novel W–Ge chlorocarbonyl compounds. X-ray crystal structure of [$WCl(GeCl_3)(CO)_3$-$(NCEt)_2$], 143
Amido-silylcyclopentadienyl
Reactivity of chlorodimethylsilyl-η^5-cyclopentadienyltrichlorotitanium with nitrogen based donors. X-ray molecular structure of [Ti{η^5-$C_5H_4SiMe_2$[η^1-N(2,6-$Me_2C_6H_3$)]}Cl_2], 93
Amidotitanium
Reactivity of chlorodimethylsilyl-η^5-cyclopentadienyltrichlorotitanium with nitrogen based donors. X-ray molecular structure of [Ti{η^5-$C_5H_4SiMe_2$[η^1-N(2,6-$Me_2C_6H_3$)]}Cl_2], 93
Amino silyl cyclopentadienyl
Synthesis, characterization and polymerization potential of *ansa*-metallocene dichloride complexes of titanium, zirconium and hafnium containing a Si–N–Si bridging unit, 109
Anils
Transmetallation reaction of cyclomercurated anils of benzoylferrocene with metallic tin. X-ray crystal structure of [$SnCl_2${(η^5-C_5H_5)Fe(η^5-C_5H_3CPh=NC_6H_4-4-CH_3)}$_2$], 233
ansa-Metallocene dichloride
Synthesis, characterization and polymerization potential of *ansa*-metallocene dichloride complexes of titanium, zirconium and hafnium containing a Si–N–Si bridging unit, 109
Ansa-metallocenes
Synthesis and structural study of the ate-complex *rac*-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb(\mu_2$-$Cl)_2Li(OEt_2)_2$ and the polymeric compound {*rac*-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb[(\mu_2$-$H)_2B(\mu_2$-$H)_2]_2Li(THF)_2\}_\infty$, 5
Au···Au interaction
The synthesis of $[AuCo(CO)_4]_2(\mu$-dppfe) (dppfe = 1,1'-bis(diphenyl phosphino)ferrocene) and the P–Au–Co–CO(axial) skeletal pair formation between neighboring molecules in the crystal, 249
Au-transition metal bond
The synthesis of $[AuCo(CO)_4]_2(\mu$-dppfe) (dppfe = 1,1'-bis(diphenyl phosphino)ferroeene) and the P–Au–Co–CO(axial) skeletal pair formation between neighboring molecules in the crystal, 249
Azavinylidene
Reactivity of the 1-azavinylidene cluster [$Ru_3(\mu$-H)(μ-N=CPh_2)$(CO)_{10}$] with hydrogen, tertiary silanes and tertiary stannanes, 201

Basicity studies
Relationships between basicity, redox behaviour of ferrocenylamines and their reactivity with Pt[II] compounds, 125
Benzamidinate
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
Bidentate
Trans-4,5-bis(2-pyridyl)norbornane: a bidentate nitrogen ligand with a potentially large bite angle, 29
Bis methylene hetero(Si, Ge, P)cyclopentanes
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61
Bite angle
Trans-4,5-bis(2-pyridyl)norbornane: a bidentate nitrogen ligand with a potentially large bite angle, 29
Borohydrides
Synthesis and structural study of the ate-complex *rac*-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb(\mu_2$-$Cl)_2Li(OEt_2)_2$ and the polymeric compound {*rac*-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb$-$[(\mu_2$-$H)_2B(\mu_2$-$H)_2]_2Li(THF)_2\}_\infty$, 5

PII S0022-328X(98)00818-3

Carbonyl
Synthesis and reactivity of tetramethylthioureatriosmium clusters: crystal structures of $[(\mu\text{-H})Os_3(CO)_8(\mu_3\text{-S})(\mu\text{-OMeCO})\{\eta^1\text{-SC}(NMe_2)_2\}]$ and $[Os_3(CO)_9(\mu\text{-OH})(\mu\text{-OMeCO})(PPh_3)]$, 133
Catalysis
Chirale Bisphosphane VIII. Die enantioselektive Hydrierung von α-Acetamidozimtsäure durch kationische Rhodium(I)-Komplexe mit optisch reinen (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden, 227
Unusual Pt-catalyzed stereo and regioselective intramolecular hydrosilylation of propargyl alcohols to (*E*,*E*)-1,6-dioxa-2,7-disila-3,8-ecidienes, 57
C–H activation
Chirale Bisphosphane VI. Chelatkomplexe von Platin(II) mit racemischen und optisch reinen *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden: Synthesen, Strukturen und C–H-Aktivierungsreaktionen, 155
C–H activation
C–H activation of methyl vinyl ketone in $Ir(acac)\{\eta^2\text{-}CH_2{=}CHC(O)CH_3\}(PCy_3)$, 241
Chirality
Chirale Bisphosphane VI. Chelatkomplexe von Platin(II) mit racemischen und optisch reinen *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden: Synthesen, Strukturen und C–H-Aktivierungsreaktionen, 155
Chirale Bisphosphane VIII. Die enantioselektive Hydrierung von α-Acetamidozimtsäure durch kationische Rhodium(I)-Komplexe mit optisch reinen (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden, 227
Cluster
Reactivity of the 1-azavinylidene cluster $[Ru_3(\mu\text{-H})(\mu\text{-N=CPh}_2)(CO)_{10}]$ with hydrogen, tertiary silanes and tertiary stannanes, 201
Clusters
Synthesis and reactivity of tetramethylthioureatriosmium clusters: crystal structures of $[(\mu\text{-H})Os_3(CO)_8(\mu_3\text{-S})(\mu\text{-OMeCO})\{\eta^1\text{-SC}(NMe_2)_2\}]$ and $[Os_3(CO)_9(\mu\text{-OH})(\mu\text{-OMeCO})(PPh_3)]$, 133
Conformation
Base-free tris(indenyl)lanthanoid(III) complexes (Ln = La, Pr, Nd, Sm): solid-state structure and solution NMR/NIR–vis spectroscopy, 167
Conjugated pyridines
Polynuclear metal complexes linked by conjugated pyridines, 257
Crystal structure
Base-free tris(indenyl)lanthanoid(III) complexes (Ln = La, Pr, Nd, Sm): solid-state structure and solution NMR/NIR–vis spectroscopy, 167
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Synthesis and structural study of the ate-complex *rac*-$(CH_3)_2C(C_5H_3\text{-}3\text{-}Si(CH_3)_3)_2Yb(\mu_2\text{-Cl})_2Li(OEt_2)_2$ and the polymeric compound $\{rac\text{-}(CH_3)_2C(C_5H_3\text{-}3\text{-}Si(CH_3)_3)_2Yb[(\mu_2\text{-H})_2B(\mu_2\text{-H})_2]_2Li(THF)_2\}_\infty$, 5
Synthesis, structure and reactivity of novel W–Ge chlorocarbonyl compounds. X-ray crystal structure of $[WCl(GeCl_3)(CO)_3(NCEt)_2]$, 143
Crystal structures
A synthetic and X-ray crystallographic study of the indenyl-phosphine complexes $1,3\text{-}(Ph_2P{=}X)_2(C_9H_6)$, (X = O, S) and $(\eta^5\text{-}C_9H_5(Ph_2P{=}S)_2)[Mn(CO)_3]$: versatile ligands for the preparation of heteropolymetallic complexes, 101
Synthesis and reactivity of tetramethylthioureatriosmium clusters: crystal structures of $[(\mu\text{-H})Os_3(CO)_8(\mu_3\text{-S})(\mu\text{-OMeCO})\{\eta^1\text{-SC}(NMe_2)_2\}]$ and $[Os_3(CO)_9(\mu\text{-OH})(\mu\text{-OMeCO})(PPh_3)]$, 133
Cycloaddition
[3 + 2] Cycloaddition reactions of the phospha-alkyne, Bu^{t}CP, with a transition metal trisulphide containing terminal thio ligands: syntheses, crystal and molecular structures of $[W(\eta^5\text{-}(C_5Me_5)(S)(S_2PC^tBu)]_2$ and $[W(\eta^5\text{-}(C_5Me_5)(S)(S_2C_2Ph_2)]_2$, 189
Cyclopentadienyl
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
Synthesis and reactivity of cyclopentadienyl chloro, imido and alkylidene tungsten (VI) complexes, 277
Synthesis and structural characterisation of nickel(II) alkyl complexes NiR_2, $[Ni(Cp)R]_2$ and a 'head-to-tail' coupled alkyl intermediate compound $[NiR(Cl)(R\text{–}R)]$ [R = $C(SiMe_3)_2\text{-}C_5H_4N\text{-}2$, $CPh(SiMe_3)C_5H_4N\text{-}2$ or $CH(SiMe_3)C_5H_4N\text{-}2$; Cp = $\eta^5\text{-}C_5H_5$], 193
Cyclopentadienylnickel(II)
Reversible sulfur dioxide reactions with cyclopentadienylnickel(II) organochalcogenide complexes, 37
Cyclopropene
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2',6'-diisopropyl phenyl-2,5-dimethyl benzamide), 85
Cyclozirconation
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61

Dehydrocoupling
Zirconocene-catalyzed dehydrogenative coupling of phenylgermane and properties of the resulting partially network polyphenylgermanes, 81
Dihydrogen complexes
New osmium hydrides containing the bulky phosphine 1,2-bis(diisopropylphosphino)ethane (dippe), 21
Dioxygen complexes
New osmium hydrides containing the bulky phosphine 1,2-bis(diisopropylphosphino)ethane (dippe), 21
Diphosphines
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61

Ethylene
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115
Ethylene polymerization
Synthesis, characterization and polymerization potential of *ansa*-metallocene dichloride complexes of titanium, zirconium and hafnium containing a Si–N–Si bridging unit, 109

Ferrocene
Transmetallation reaction of cyclomercurated anils of benzoylferrocene with metallic tin. X-ray crystal structure of $[SnCl_2\{(\eta^5\text{-}C_5H_5)Fe(\eta^5\text{-}C_5H_3CPh{=}NC_6H_4\text{-}4\text{-}CH_3)\}_2]$, 233

Ferrocenylamines
Relationships between basicity, redox behaviour of ferrocenylamines and their reactivity with Pt[II] compounds, 125
Fluorenyl
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115

German
Synthesis, structure and reactivity of novel W–Ge chlorocarbonyl compounds. X-ray crystal structure of $[WCl(GeCl_3)(CO)_3(NCEt)_2]$, 143
Germyl selenide
Palladium(0)-catalyzed regio- and stereoselective addition of heteroatom compounds bearing Si–Se, Ge–Se, and Si–Ge bonds to phenylacetylene, 1
Group IV metal
Synthesis, characterization and polymerization potential of *ansa*-metallocene dichloride complexes of titanium, zirconium and hafnium containing a Si–N–Si bridging unit, 109

Half-sandwich complexes
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115
Hetero(Si, Ge, P)cyclopentanes
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61
Hydride complexes
New osmium hydrides containing the bulky phosphine 1,2-bis(diisopropylphosphino)ethane (dippe), 21
Hydrido complexes
C–H activation of methyl vinyl ketone in $Ir(acac)\{\eta^2\text{-}CH_2{=}CHC(O)CH_3\}(PCy_3)$, 241
Hydrogenation
Chirale Bisphosphane VIII. Die enantioselektive Hydrierung von α-Acetamidozimtsäure durch kationische Rhodium(I)-Komplexe mit optisch reinen (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden, 227
Reactivity of the 1-azavinylidene cluster $[Ru_3(\mu\text{-}H)(\mu\text{-}N{=}CPh_2)(CO)_{10}]$ with hydrogen, tertiary silanes and tertiary stannanes, 201

Imide
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
Imido
Synthesis and reactivity of cyclopentadienyl chloro, imido and alkylidene tungsten (VI) complexes, 277
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2',6'-diisopropyl phenyl-2,5-dimethyl benzamide), 85
Indenyl
Base-free tris(indenyl)lanthanoid(III) complexes (Ln = La, Pr, Nd, Sm): solid-state structure and solution NMR/NIR–vis spectroscopy, 167
Synthesis, characterization and polymerization potential of *ansa*-metallocene dichloride complexes of titanium, zirconium and hafnium containing a Si–N–Si bridging unit, 109
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115
Indenyl-phosphine complexes
A synthetic and X-ray crystallographic study of the indenyl-phosphine complexes $1,3\text{-}(Ph_2P{=}X)_2(C_9H_6)$, (X = O, S) and $(\eta^5\text{-}C_9H_5(Ph_2P{=}S)_2)[Mn(CO)_3]$: versatile ligands for the preparation of heteropolymetallic complexes, 101
Intramolecular hydrosilylation
Unusual Pt-catalyzed stereo and regioselective intramolecular hydrosilylation of propargyl alcohols to (*E*,*E*)-1,6-dioxa-2,7-disila-3,8-ecidienes, 57
IR(ν(CO)) splitting
The synthesis of $[AuCo(CO)_4]_2(\mu\text{-dppfe})$ (dppfe = 1,1'-bis(diphenyl phosphino)ferrocene) and the P–Au–Co–CO(axial) skeletal pair formation between neighboring molecules in the crystal, 249
Iridium
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Iridium complexes
C–H activation of methyl vinyl ketone in $Ir(acac)\{\eta^2\text{-}CH_2{=}CHC(O)CH_3\}(PCy_3)$, 241

Lanthanoid
Base-free tris(indenyl)lanthanoid(III) complexes (Ln = La, Pr, Nd, Sm): solid-state structure and solution NMR/NIR–vis spectroscopy, 167

Manganese
Synthesis, characterization and chemistry of some long chain alkoxycarbonyl manganese pentacarbonyl complexes $[Mn(CO)_5\{C(O)OR\}]$ (where R = *n*-C_7H_{15} to *n*-$C_{10}H_{21}$, *n*-$C_{12}H_{25}$, *n*-$C_{14}H_{29}$, and *n*-$C_{16}H_{33}$), 267
Mercury
Transmetallation reaction of cyclomercurated anils of benzoylferrocene with metallic tin. X-ray crystal structure of $[SnCl_2\{(\eta^5\text{-}C_5H_5)Fe(\eta^5\text{-}C_5H_3CPh{=}NC_6H_4\text{-}4\text{-}CH_3)\}_2]$, 233
Metal complexes
Polynuclear metal complexes linked by conjugated pyridines, 257
Methyl vinyl ketone complexes
C–H activation of methyl vinyl ketone in $Ir(acac)\{\eta^2\text{-}CH_2{=}CHC(O)CH_3\}(PCy_3)$, 241
Molybdenum
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2',6'-diisopropyl phenyl-2,5-dimethyl benzamide), 85

Nickel(II)
Synthesis and structural characterisation of nickel(II) alkyl complexes NiR_2, $[Ni(Cp)R]_2$ and a 'head-to-tail' coupled alkyl intermediate compound $[NiR(Cl)(R\text{–}R)]$ [R = $C(SiMe_3)_2C_5H_4N$-2, $CPh(SiMe_3)C_5H_4N$-2 or $CH(SiMe_3)C_5H_4N$-2; Cp = $\eta^5\text{-}C_5H_5$], 193
Niobocene
Syntheses and properties of tetrathio- and tetraseleno metalates $[(C_5Me_4R)_2NbE_2]_2M$ (E = S, Se; M = Cr, Mo; R = Me, Et) with peripheric niobocene ligands, 71

Oligophenylene
Polymeric organosilicon systems. XXIX. Thermal properties of poly[(disilanylene)oligophenylenes], 47
Organochalcogenide
Reversible sulfur dioxide reactions with cyclopentadienylnickel(II) organochalcogenide complexes, 37
Organosilicon polymer
Polymeric organosilicon systems. XXIX. Thermal properties of poly[(disilanylene)oligophenylenes], 47

Osmium
New osmium hydrides containing the bulky phosphine 1,2-bis(-diisopropylphosphino)ethane (dippe), 21
Synthesis and reactivity of tetramethylthioureatriosmium clusters: crystal structures of $[(\mu\text{-H})Os_3(CO)_8(\mu_3\text{-S})(\mu\text{-OMeCO})\{\eta^1\text{-SC}(NMe_2)_2\}]$ and $[Os_3(CO)_9(\mu\text{-OH})(\mu\text{-OMeCO})(PPh_3)]$, 133
Oxo
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2',6'-diisopropyl phenyl-2,5-dimethyl benzamide), 85

Palladium
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Palladium catalyst
Palladium(0)-catalyzed regio- and stereoselective addition of heteroatom compounds bearing Si–Se, Ge–Se, and Si–Ge bonds to phenylacetylene, 1
Phosphenium ion
Reactions of protic reagents with a tungsten phosphenium ion complex, 13
Phosphine
New osmium hydrides containing the bulky phosphine 1,2-bis(-diisopropylphosphino)ethane (dippe), 21
Phosphines
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61
Phosphorus
Reactions of protic reagents with a tungsten phosphenium ion complex, 13
Platinum
Chirale Bisphosphane VI. Chelatkomplexe von Platin(II) mit racemischen und optisch reinen *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden: Synthesen, Strukturen und C–H-Aktivierungsreaktionen, 155
Platinum atoms
Unusual Pt-catalyzed stereo and regioselective intramolecular hydrosilylation of propargyl alcohols to (*E*,*E*)-1,6-dioxa-2,7-disila-3,8-ecidienes, 57
Platinum compounds
Relationships between basicity, redox behaviour of ferrocenylamines and their reactivity with Pt[II] compounds, 125
P-ligands
Chirale Bisphosphane VI. Chelatkomplexe von Platin(II) mit racemischen und optisch reinen *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden: Synthesen, Strukturen und C–H-Aktivierungsreaktionen, 155
Chirale Bisphosphane VIII. Die enantioselektive Hydrierung von α-Acetamidozimtsäure durch kationische Rhodium(I)-Komplexe mit optisch reinen (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden, 227
Polygermane
Zirconocene-catalyzed dehydrogenative coupling of phenylgermane and properties of the resulting partially network polyphenylgermanes, 81
Polymerization
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115
Synthesis, structure and reactivity of novel W–Ge chlorocarbonyl compounds. X-ray crystal structure of $[WCl(GeCl_3)(CO)_3(NCEt)_2]$, 143
Polymetal complexes
Syntheses and properties of tetrathio- and tetraseleno metalates $[(C_5Me_4R)_2NbE_2]_2M$ (E = S, Se; M = Cr, Mo; R = Me, Et) with peripheric niobocene ligands, 71
Polynuclear
Polynuclear metal complexes linked by conjugated pyridines, 257
Propargyl alcohols
Unusual Pt-catalyzed stereo and regioselective intramolecular hydrosilylation of propargyl alcohols to (*E*,*E*)-1,6-dioxa-2,7-disila-3,8-ecidienes, 57
Pyridine substituted alkyls
Synthesis and structural characterisation of nickel(II) alkyl complexes NiR_2, $[Ni(Cp)R]_2$ and a 'head-to-tail' coupled alkyl intermediate compound $[NiR(Cl)(R-R)]$ [R = C(SiMe$_3$)$_2$C$_5$H$_4$N-2, CPh(SiMe$_3$)C$_5$H$_4$N-2 or CH(SiMe$_3$)C$_5$H$_4$N-2; Cp = η^5-C$_5$H$_5$], 193
Pyrolysis
Polymeric organosilicon systems. XXIX. Thermal properties of poly[(disilanylene)oligophenylenes], 47

Redox studies
Relationships between basicity, redox behaviour of ferrocenylamines and their reactivity with Pt[II] compounds, 125
Regio- and stereoselective addition
Palladium(0)-catalyzed regio- and stereoselective addition of heteroatom compounds bearing Si–Se, Ge–Se, and Si–Ge bonds to phenylacetylene, 1
Reversible
Reversible sulfur dioxide reactions with cyclopentadienylnickel(II) organochalcogenide complexes, 37
Rhodium
Chirale Bisphosphane VIII. Die enantioselektive Hydrierung von α-Acetamidozimtsäure durch kationische Rhodium(I)-Komplexe mit optisch reinen (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und (1*S*,2*S*)-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden, 227
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Ruthenium
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Reactivity of the 1-azavinylidene cluster $[Ru_3(\mu\text{-H})(\mu\text{-N=CPh}_2)(CO)_{10}]$ with hydrogen, tertiary silanes and tertiary stannanes, 201

SAMP
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Schiff base complexes
Halbsandwich-Komplexe von (*S*)-1-Amino-2-(methoxymethyl)-pyrrolidin (SAMP), 179
Selectivity
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61
Selenium
Syntheses and properties of tetrathio- and tetraseleno metalates $[(C_5Me_4R)_2NbE_2]_2M$ (E = S, Se; M = Cr, Mo; R = Me, Et) with peripheric niobocene ligands, 71
Silicon
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Unusual Pt-catalyzed stereo and regioselective intramolecular hydrosilylation of propargyl alcohols to (*E*,*E*)-1,6-dioxa-2,7-disila-3,8-ecidienes, 57

Silylgermane
Palladium(0)-catalyzed regio- and stereoselective addition of heteroatom compounds bearing Si–Se, Ge–Se, and Si–Ge bonds to phenylacetylene, 1
Silyl selenide
Palladium(0)-catalyzed regio- and stereoselective addition of heteroatom compounds bearing Si–Se, Ge–Se, and Si–Ge bonds to phenylacetylene, 1
Single crystal X-ray analysis
The synthesis of $[AuCo(CO)_4]_2(\mu$-dppfe) (dppfe = 1,1′-bis-(diphenyl phosphino)ferrocene) and the P–Au–Co–CO(axial) skeletal pair formation between neighboring molecules in the crystal, 249
Sulfur
Syntheses and properties of tetrathio- and tetraseleno metalates $[(C_5Me_4R)_2NbE_2]_2M$ (E = S, Se; M = Cr, Mo; R = Me, Et) with peripheric niobocene ligands, 71
Sulfur dioxide
Reversible sulfur dioxide reactions with cyclopentadienylnickel(II) organochalcogenide complexes, 37

Tertiary stannane
Reactivity of the 1-azavinylidene cluster $[Ru_3(\mu$-H)$(\mu$-N=CPh$_2$)(CO)$_{10}]$ with hydrogen, tertiary silanes and tertiary stannanes, 201
Tetramethylthiourea
Synthesis and reactivity of tetramethylthioureatriosmium clusters: crystal structures of $[(\mu$-H)$Os_3(CO)_8(\mu_3$-S)$(\mu$-OMeCO)$\{\eta^1$-SC(NMe$_2$)$_2\}]$ and $[Os_3(CO)_9(\mu$-OH)$(\mu$-OMeCO)-(PPh$_3$)], 133
Thio ligands
[3 + 2] Cycloaddition reactions of the phospha-alkyne, Bu′CP, with a transition metal trisulphide containing terminal thio ligands: syntheses, crystal and molecular structures of $[W(\eta^5$-$(C_5Me_5)(S)(S_2PC'Bu)]_2$ and $[W(\eta^5$-$(C_5Me_5)(S)$-$(S_2C_2Ph_2)]_2$, 189
Tin
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Transmetallation reaction of cyclomercurated anils of benzoylferrocene with metallic tin. X-ray crystal structure of $[SnCl_2\{(\eta^5$-$C_5H_5)Fe(\eta^5$-C_5H_3CPh=NC_6H_4-4-$CH_3)\}_2]$, 233
Titanium
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
Reactivity of chlorodimethylsilyl-η^5-cyclopentadienyltrichlorotitanium with nitrogen based donors. X-ray molecular structure of $[Ti\{\eta^5$-$C_5H_4SiMe_2[\eta^1$-*N*(2,6-$Me_2C_6H_3)]\}Cl_2]$, 93
Trans-4,5-bis(2-pyridyl)norbornane
Trans-4,5-bis(2-pyridyl)norbornane: a bidentate nitrogen ligand with a potentially large bite angle, 29
Transmetallation
Transmetallation reaction of cyclomercurated anils of benzoylferrocene with metallic tin. X-ray crystal structure of $[SnCl_2\{(\eta^5$-$C_5H_5)Fe(\eta^5$-C_5H_3CPh=NC_6H_4-4-$CH_3)\}_2]$, 233
Tris(dimethylphenylsilyl)methyl
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Tris(trimethylsilyl)methyl
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Trisulfide
[3 + 2] Cycloaddition reactions of the phospha-alkyne, Bu′CP, with a transition metal trisulphide containing terminal thio ligands: syntheses, crystal and molecular structures of $[W(\eta^5$-$(C_5Me_5)(S)(S_2PC'Bu)]_2$ and $[W(\eta^5$-$(C_5Me_5)(S)$-$(S_2C_2Ph_2)]_2$, 189
Trisyl
Organotin compounds containing a bulky $(Me_3Si)_3C$ or related ligand. Crystal structures of $\{(Me_3Si)_3CMe(O_2NO)Sn\}_2O$, $(PhMe_2Si)_3CSnMeCl_2$ and $(PhMe_2Si)_3CSnCl_3$, 215
Tungsten
Reactions of protic reagents with a tungsten phosphenium ion complex, 13
Synthesis and reactivity of cyclopentadienyl chloro, imido and alkylidene tungsten (VI) complexes, 277
Synthesis, structure and reactivity of molybdenum imido and oxo complexes. X-ray structure of $MoCl_3(NAr)L_2$ (Ar = 2,6-diisopropyl phenyl; L = N-2′,6′-diisopropyl phenyl-2,5-dimethyl benzamide), 85
Tungsten(II)
Synthesis, structure and reactivity of novel W–Ge chlorocarbonyl compounds. X-ray crystal structure of $[WCl(GeCl_3)(CO)_3(NCEt)_2]$, 143

Versatile ligands
A synthetic and X-ray crystallographic study of the indenylphosphine complexes 1,3-$(Ph_2P$=$X)_2(C_9H_6)$, (X = O, S) and $(\eta^5$-$C_9H_5(Ph_2P$=$S)_2)[Mn(CO)_3]$: versatile ligands for the preparation of heteropolymetallic complexes, 101

X-ray diffraction
New binuclear alkyl and half-sandwich cyclopentadienyl imido titanium complexes containing acetamidinate and benzamidinate supporting ligands, 209
X-ray structure
Reactivity of the 1-azavinylidene cluster $[Ru_3(\mu$-H)$(\mu$-N=CPh$_2$)-(CO)$_{10}]$ with hydrogen, tertiary silanes and tertiary stannanes, 201
X-ray structure analysis
Chirale Bisphosphane VI. Chelatkomplexe von Platin(II) mit racemischen und optisch reinen *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediester)- und *trans*-Cyclopentan-1,2-diyl-bis(phosphonigsäurediamid)-Liganden: Synthesen, Strukturen und C–H-Aktivierungsreaktionen, 155

Ytterbium (III)
Synthesis and structural study of the ate-complex *rac*-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb(\mu_2$-Cl$)_2$Li$(OEt_2)_2$ and the polymeric compound $\{rac$-$(CH_3)_2C(C_5H_3$-3-$Si(CH_3)_3)_2Yb$-$[(\mu_2$-H$)_2B(\mu_2$-H$)_2]_2$Li$(THF)_2\}_\infty$, 5

Zirconacomplexes
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61
Zirconium
Synthesis, characterization and polymerization potential of unbridged and bridged half-sandwich complexes of zirconium containing *N*-donor ligands, 115
Zirconocene-catalyzed dehydrogenative coupling of phenylgermane and properties of the resulting partially network polyphenylgermanes, 81
Zirconocene
Stereoselective synthesis of new hetero(P, Si, Ge, Sn)cyclic derivatives from zirconium diyne and diene complexes, 61